

Title: Touring Delmarva

Link to Outcomes:

- **Problem Solving** Students will solve problems in mathematics in a real life situation, including problems with open ended answers, with/without use of a calculator, in a cooperative atmosphere.
- **Communication** Students will demonstrate their ability to communicate mathematically using daily logs and scales.
- **Reasoning** Students will make decisions based on the information given.
- **Connections** Students will connect mathematics to map skills, manage money and time, and use Social Studies terms.
- **Estimation** Students will apply estimation strategies to check the reasonableness of their results.
- **Measurement** Students will demonstrate and apply concepts of standard measurement to estimate, verify and solve a problem in a real life situation.
- **Number Sense & Numeration** Students will demonstrate a knowledge of place value while keeping records of money and time.
- **Whole Number Computation** Students will demonstrate the knowledge of addition, subtraction, multiplication, and division of whole numbers.
- **Statistics** Students will collect, organize and interpret data from a table, a daily log, and a map
- **Decimals** Students will demonstrate the ability to add, subtract, and multiply, using money.
- **Concepts of Social Studies** Students will show competency in reading and interpreting maps, scales, a compass rose, and key.

Brief Overview:

This is an interdisciplinary mathematics/social studies unit. Students will be given a collection of information including a map of a specific geographic region, a specified amount of money and time, and costs of food and lodging. In cooperative groups, students will use this information to plan a trip for a family of four.

Grade/Level:

Grades 3-4

Duration/Length:

This unit should take 4-6 class periods. Task 1 may take longer than the others.

Prerequisite Knowledge:

Students need a basic understanding of:

- road maps
- decimals to hundredths
- time
- measurement
- addition, subtraction, multiplication and division
- money

Objectives:

Students will:

- add, subtract and multiply quantities of money.
- calculate distance on a map.
- keep accurate records.
- show competence in the use of a calculator.
- demonstrate knowledge of Social Studies/map terms and symbols.
- correctly keep a running balance on a spending account.
- calculate elapsed time.
- read and interpret a map.
- write a paragraph to describe the trip.

Materials/Resources/Printed Materials:

- Maps of Delmarva
- Ruler
- Cost of lodging and food (worksheet)
- Calculator
- List of area attractions and their costs (worksheet)
- Daily log (worksheet)
- Pencil
- Highlighter
- Miles traveled log

Development/Procedures:**Task 1:**

- Students will be given a map of Delmarva (map worksheet), a list of lodging, restaurant, and attraction choices in each state of Delmarva. The list will include their respective costs. In addition they will get a daily log on which to keep records of money spent (see worksheets 3& 4).
- In cooperative groups of three or four, students will plan a three day trip through Delmarva for a family of four. They must visit all three states and at least five attractions. They will be given a budget of \$400.00.

Task 2:

- Students will be given a map of Delmarva on which to highlight their route (see map worksheet).

Task 3:

- Students will calculate the miles they travel on their trip.

Task 4:

- Students will write a paragraph, using chronological order and directional terms, to describe their trip.

Evaluation:

Students will be assessed using a point evaluation system based on daily activities, miles traveled logs, and their paragraphs from Task 4 (worksheet).

Extension/Follow Up:

Students will:

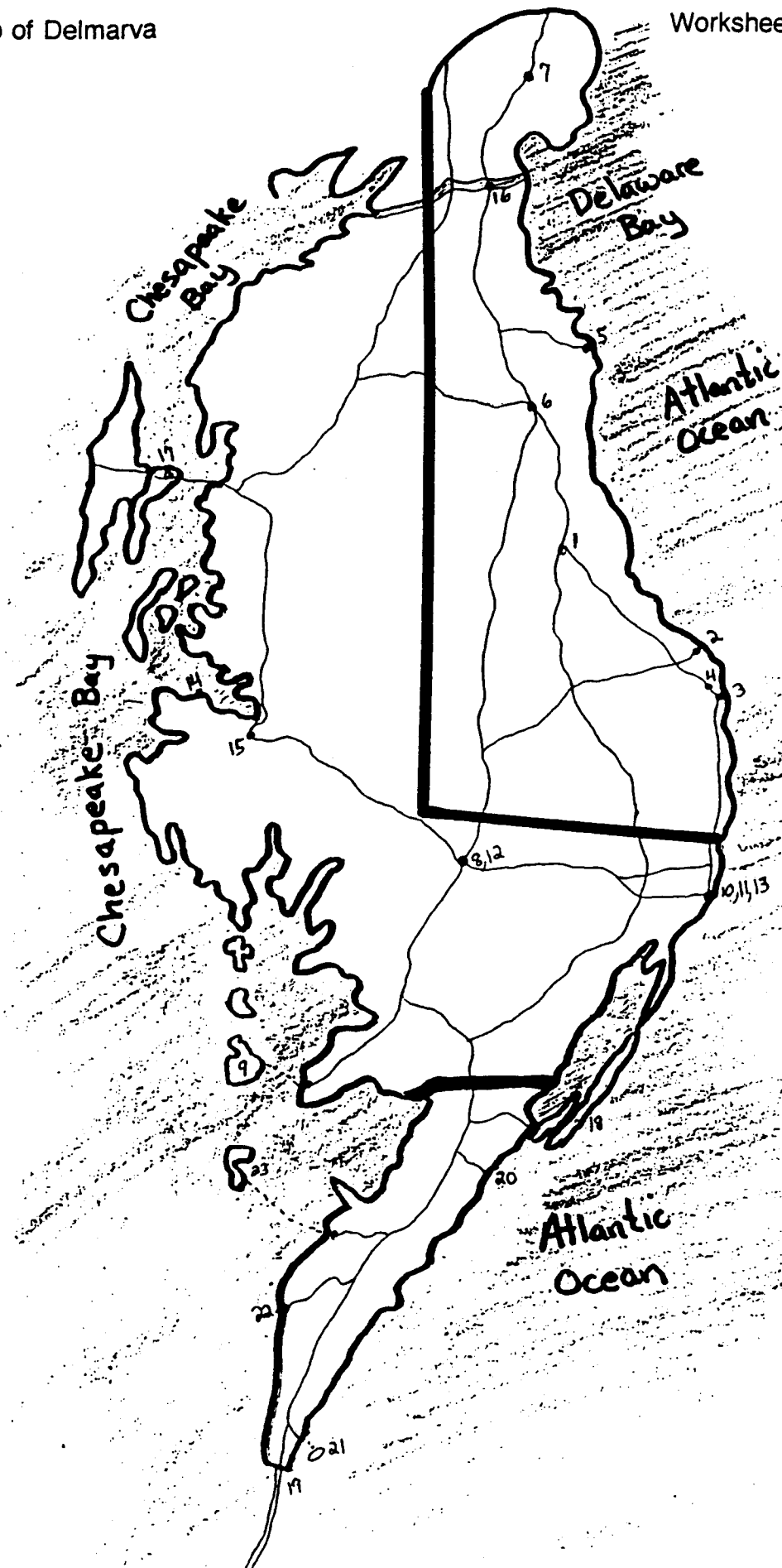
- make brochure of the places they visited.
- create, exchange, and solve word problems based on their experiences.
- plan a field trip to one of the areas studied.
- write a letter to a pen pal to persuade him/her to visit our area.
- compute the amount of fuel the trip will take.

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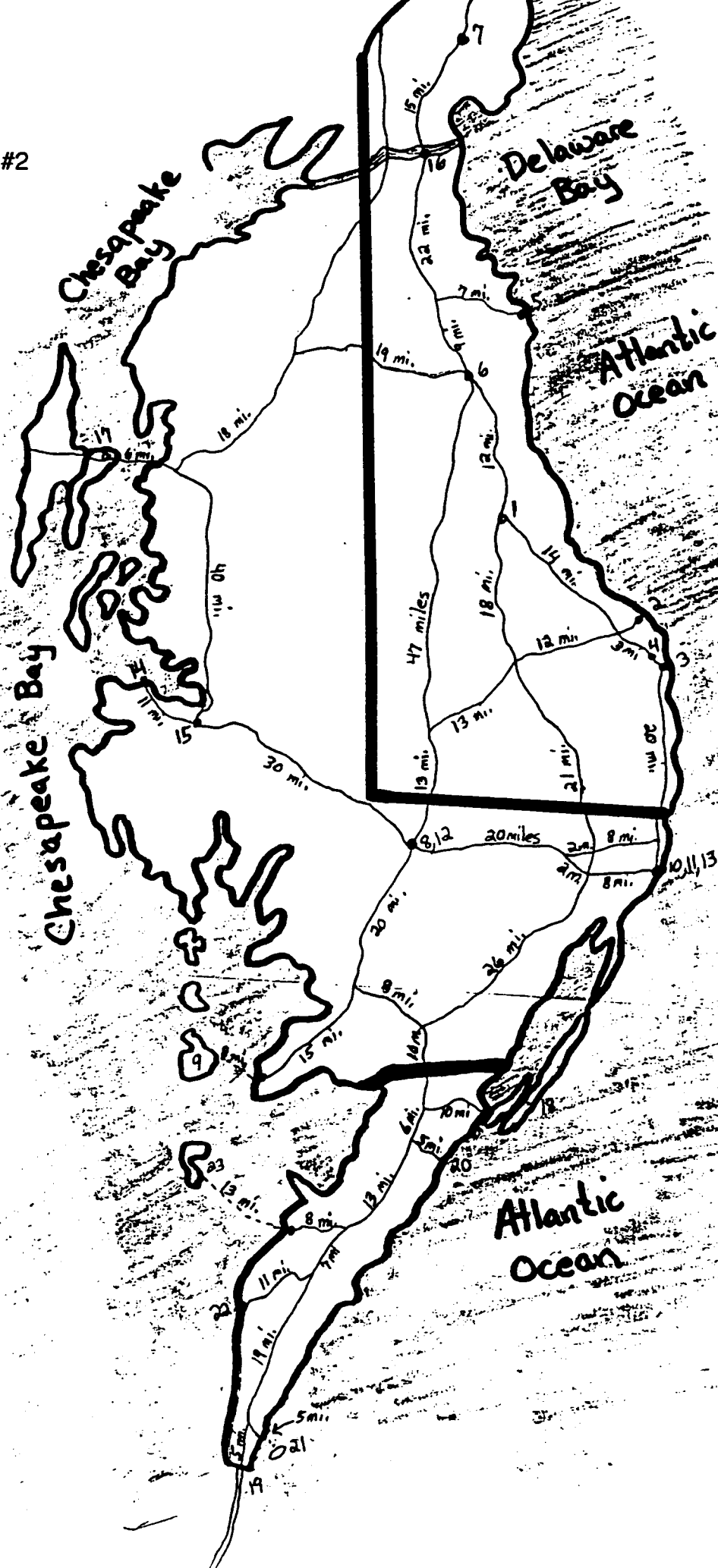
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Delmarva

Worksheet #2



This is your list of attractions, hotels and restaurants and their costs. Your trip will last 3 days and 2 nights. You will need to visit all three states and at least five attractions, one from each state. Your journey begins in Salisbury, Maryland.

Attractions

Delaware

1. Milford Indian Village - \$5.00 per person
2. Cape May-Lewes Ferry - \$4.50 per person + \$10.00 per car
3. Rehoboth Beach - Free
4. Cape Henlopen State Park - \$2.00 per person
5. Bombay Hook National Wildlife Refuge - Free
6. Dover Air Force Base - \$1.00 per person
7. Winterthur Gardens - \$2.50 per person

Maryland

8. Ward Museum - \$3.00 per person
9. Smith Island Boat Tour - \$5.00 per person
10. Jolly Roger Amusement Park - \$12.00 per person
11. Mini Golf - \$4.95 per person
12. Salisbury Zoo - Free
13. Ocean City Beach - Free
14. Horn Point - \$1.00 per person
15. Harriet Tubman Museum - \$2.50 per person
16. C & D Canal (historical museum)- \$1.00 per person
17. Kent Narrows Outlets - Free (You may shop if you like, but be sure to subtract your cost of each purchase from your total.)

Virginia

18. Chincoteague Island Wild Ponies - Free
19. Chesapeake Bay Bridge Tunnel - \$10.00 per car
20. NASA Flight Center - Free
21. Cape Charles Lighthouse - \$2.25 per person
22. Silver Beach - Free
23. Tangier Island Boat Cruise - \$7.50 per person

Lodging*Fancy - \$50.00 per room each night**Average - \$30.00 per room each night**Camping - \$15.00 per night***Food (for a family of 4)**

	Breakfast	Lunch	Dinner
nice restaurant	<i>\$20.00</i>	<i>\$35.00</i>	<i>\$50.00</i>
fast food restaurant	<i>\$12.50</i>	<i>\$18.25</i>	<i>\$23.55</i>
picnic	<i>\$5.00</i>	<i>\$10.45</i>	<i>\$15.85</i>

Worksheet # 4

Record all money spent daily. Use a separate line for each entry. Be sure to compute the cost for four people before subtracting it from the balance. You only have \$400 to spend. Remember: each day you must include three meals, lodging, and any places you visit

Daily Log

[illegible]

Miles Traveled

Day 1

Total	Miles

Day 2

Total	Miles

Day 3

Total	Miles

Day 1 Total _____

Day 2 Total _____

Day 3 Total _____

Total Miles _____

Paragraph Evaluation

<u>Content</u>	<u>Points</u>
Visited all three states	_____/3
Participated in five activities	_____/3
Used correct directional terms	_____/3
Computed mileage correctly	_____/3
Written directions followed trip taken	_____/3
	_____/15

<u>Mechanics</u>	<u>Points</u>
Indented paragraph	_____/1
Used correct spelling	_____/2
Used correct punctuation	_____/2
Used complete sentences	_____/3
Sentences made sense	_____/3
Was neat	_____/1
	_____/12

Math Log Evaluation

Entries accurately entered	_____/1
Includes all entries	_____/1
Expenses computed correctly for 4 people	_____/3
Balance computed correctly	_____/5
	_____/10

Miles Traveled Log Evaluation

Accurate log entries	_____/1
No missing entries	_____/1
Correct mileage figures	_____/1